

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2005/001162

A. CLASSIFICATION OF SUBJECT MATTER
Int.Cl⁷ B62D1/20

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl⁷ B62D1/00-1/28, F16D1/02, F16D3/06

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

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Kokai Jitsuyo Shinan Koho	1971-2005	Jitsuyo Shinan Toroku Koho	1996-2005

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	JP 2001-50293 A (NACAM France S.A.), 23 February, 2001 (23.02.01), Full text & EP 1065397 A & US 6343993 A	1-13
Y	JP 2003-054421 A (NSK Ltd.), 26 February, 2003 (26.02.03), Full text (Family: none)	13
A	EP 1078843 A1 (Daumal Castellon, Melchor), 28 February, 2001 (28.02.01), Full text & WO 00/55028 A & ES 2161127 A & JP 2002-539033 A	1

 Further documents are listed in the continuation of Box C. See patent family annex.

* Special categories of cited documents:	"T"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention	
"A"	document defining the general state of the art which is not considered to be of particular relevance	"X"	document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"E"	earlier application or patent but published on or after the international filing date	"Y"	document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"L"	document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&"	document member of the same patent family
"O"	document referring to an oral disclosure, use, exhibition or other means		
"P"	document published prior to the international filing date but later than the priority date claimed		

Date of the actual completion of the international search
01 March, 2005 (01.03.05)Date of mailing of the international search report
15 March, 2005 (15.03.05)Name and mailing address of the ISA/
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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	DE 3730393 A1 (Lemförder Metallwaren AG.), 23 March, 1989 (23.03.89), Full text (Family: none)	1
A	Microfilm of the specification and drawings annexed to the request of Japanese Utility Model Application No. 27492/1991 (Laid-open No. 123775/1992) (Fuji Kiko Co., Ltd.), 10 November, 1992 (10.11.92), Full text (Family: none)	1
A	JP 2002-286034 A (The Torrington Co.), 03 October, 2002 (03.10.02), Full text & DE 10202899 A1 & GB 2373551 A	1
A	JP 2000-38142 A (Daimler Chrysler AG.), 08 February, 2000 (08.02.00), Full text & DE 19824477 A	1
A	JP 2001-239944 A (NSK Ltd.), 04 September, 2001 (04.09.01), Full text (Family: none)	1
A	Microfilm of the specification and drawings annexed to the request of Japanese Utility Model Application No. 123744/1989 (Laid-open No. 062230/1991) (Fuji Kiko Co., Ltd.), 18 June, 1991 (18.06.91), Full text (Family: none)	1